

downwards, is made to adhere to it. The grinding-down of the remaining surface is now accomplished, the superincumbent film of mica yielding to the hone or grinding disk with the greatest readiness. After washing, as before, a thin glass cover is applied, and the operation is complete.

In order to ensure the non-displacement of the ground surfaces, and also the perfect parallelism of the minute ground objects to the surface upon which they rest (a matter of the highest importance wherever clear definition is demanded), great care is necessary in heating the balsam only to such a degree as to produce sufficient hardness, and permanently to secure the objects.

With due caution, the finest organic or inorganic particles of matter may in this manner be ground into sections, and their surfaces reduced so as entirely to obviate the diffraction of the rays of light attendant on the interposition of surfaces which are not parallel to one another.

I remain, Gentlemen,

Your most obedient Servant,

G. C. WALLICH.

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VII.—*Notice of a new Species of Damaster from Japan.*

By ARTHUR ADAMS, F.L.S. &c.

*Damaster Fortunei*, A. Adams.

*D. capite et thorace violascentibus nitidis, transversim ruguloso-punctatis; thoracis lateribus dilatatis; elytris triliratis, liris tuberculosi, interstitiis verrucis depressiusculis et punctis elevatis scabrisculis, apice angustato sed vix producto et non aculeato.*

*Hab.* Awa-Sima, Japan.

In this species, which is of the same size as *D. blaptoides*, but of stouter build, the head and thorax are of a fine violet tint, the head is wider between the eyes than in the known species, the sides of the thorax are dilated, the body is considerably wider and more ovate, and the elytra, instead of being simply sulcate, are furnished with three slightly prominent tubercular ridges, with wart-like tubercles and elevated points filling up the interstices.

I have much pleasure in naming it after Mr. Fortune, who has just returned from Japan, and in conjunction with whom I compared it, at Shanghai, with a careful figure of *D. blaptoides* supplied to him by Mr. Adam White.